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Date Deposited: July 28, 2003

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|  |                            |
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| Applicant: William H. Hildebrand, et al. | ) Atty. Dkt. No. 5846.005  |
|  | )                          |
| Serial No.: Not Yet Assigned             | ) Art Unit: 1631           |
|  | )                          |
| Filed: Herewith                          | ) Examiner: John S. Brusca |
|  | )                          |
| For: CLASS I SEQUENCE BASED TYPING OF    | ) Confirmation No.: N/A    |
| HLA-A, -B, AND -C ALLELES BY DIRECT      | )                          |
| DNA SEQUENCING                           | )                          |

Mail Stop - Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

**List of Sections Forming Part of This  
Information Disclosure Statement**

The following sections are being submitted for this Information Disclosure Statement:

1. ☒ Preliminary Statements
2. ☒ Forms PTO/SB/08A and 08B (formerly Form PTO-1449)
3. ☒ Statement as to Information Not Found in Patents or Publications
4. ☒ Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted

5. ☐ Cumulative Patents or Publications
6. ☐ Copies of Listed Information Items Accompanying this Statement
7. ☐ Concise Explanation of Non-English Language Listed Information Items
  - 7A. ☐ EPO Search Report
  - 7B. ☐ English Language Version
8. ☐ Translation(s) of Non-English Language Documents
9. ☐ Concise Explanation of English Language Listed Information Items (Optional)
10. ☒ Identification of Person(s) Making this Information Disclosure Statement

## **Section 1. Preliminary Statements**

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

## **Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

- ☒ A completed Form PTO/SB/08A and/or Form PTO/SB/08B is attached hereto.

**Section 3. Statement as to Information Not Found in Patents or Publications (Information Not Listed in Form PTO-1449)**

**Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted**

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. 09/846,826, filed on May 1, 2001 (date).

*(complete the following, if applicable)*

☐ This application also relies, under 35 U.S.C. 120, on the earlier filing date of prior application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ (date).

The following references were submitted to, and/or cited by, the Office in the prior application(s) and therefore, are not required to be provided in this application:

**Section 5. Cumulative Patents or Publications**

STATEMENT

\_\_\_\_\_ is cumulative of the following patents or publications listed on Form PTO-1449:

In accordance with 37 C.F.R. § 1.98(c), a copy of only \_\_\_\_ is being submitted with this Information Disclosure Statement.

**Section 6. Copies of Listed Information Items Accompanying this Statement**

Legible copies of all items listed in Form PTO-1449 (Modified) accompany this information disclosure statement.

☒ Exception(s) to above:

☒ [X] Items in prior application from which an earlier filing date is claimed for this application, as identified in Section 4.

☐ [ ] Cumulative patents or publications identified in Section 5.

## **Section 7. Concise Explanation of Non-English Language Listed Information Items**

### **Section 7A. Concise Explanation of Non-English Language Listed Information Items - EPO Search Report**

The relevance with respect to the following citations listed on Form PTO-1449:

is submitted on the basis of accompanying:

*(check the appropriate item)*

☐ [ ] EPO search report that is in the English language,

☐ [ ] EPO search report that is not in the English language and that is accompanied also by an English language version of the EPO search report,

that issued on the corresponding European patent application.

### **Section 7B. Concise Explanation of Non-English Language Listed Information Items - English Language Version of EPO Search Report**

## **Section 8. Translation(s) of Non-English Language Documents**

☐ [ ] Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material:

*(complete the following, if applicable)*

- ☐ No English language translations of the foreign language parents, publications or information or parts thereof are readily available, except for those listed above.
- ☐ The following foreign language documents submitted are believed to be the equivalent or substantial equivalent of the English language documents identified below, which are also submitted herewith.

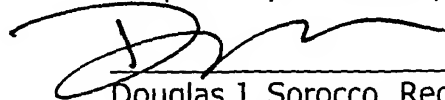
**Section 9. Concise Explanation of English Language Listed Information Items (OPTIONAL)**

**Section 10. Identification of Person(s) Making this INFORMATION DISCLOSURE STATEMENT**

The person making this statement is the attorney who signs below on the basis of the information:

- ☐ supplied by the inventor(s)
- ☐ supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)).
- ☒ in the attorney's file

Respectfully submitted,



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|--|---|----|---|--------------------------|----------------------------|
| Substitute for form 1449A/PTO  |   |    |   | <i>C mplete if Kn wn</i> |                            |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |   |    |   | Application Number       | Not Yet Assigned           |
|  |   |    |   | Filing Date              | Herewith                   |
|  |   |    |   | First Named Inventor     | William Hildebrand, et al. |
|  |   |    |   | Group Art Unit           | 1631                       |
|  |   |    |   | Examiner Name            | John S. Brusca             |
| Sheet  | 1 | of | 2 | Attorney Docket Number   | 5846.005                   |

[illegible][illegible]

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08B (08-00)  
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|   |      |                          |                            |
|---|------|--------------------------|----------------------------|
| <b>Substitute for form 1449B/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |      | <b>C mplete if Kn wn</b> |                            |
|   |      | Application Number       | Not Yet Assigned           |
|   |      | Filing Date              | Herewith                   |
|   |      | First Named Inventor     | William Hildebrand, et al. |
|   |      | Group Art Unit           | 1631                       |
|   |      | Examiner Name            | John S. Brusca             |
| Sheet 2   | of 2 | Attorney Docket Number   | 5846.005                   |

| <b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b> |                          |   |                |
|--|--------------------------|---|----------------|
| Examiner<br>Initials*                                    | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|  | A                        | Gibco BRL Catalog Life Technologies, Inc., Gaithersburg, MD, pages 762-763, 1992.   |                |
|  | B                        | Domena, et al., A Small Test of a Sequence-Based Typing Method: Definition of the B*1520 Allele, pages 217-224, 1994.   |                |
|  | C                        | Oetting, et al., Linkage Analysis With Multiplexed Short Tandem Repeat Polymorphisms Using Infrared Fluorescence and M13 Tailed Primers. Genomics Vol. 30, pages 450-458, 1995.   |                |
|  | D                        | Cereb, et al., Locus-Specific Amplification of HLA Class I Genes From Genomic DNA: Locus-Specific Sequences In The First and Third Introns of HLA -A, -B and -C Alleles. Tissue Antigens Vol. 45, pages 1-11, 1995.   |                |
|  | E                        | Gibco BRL Catalog Life Technologies, Inc., Gaithersburg, MD, pages 294, 295, 766 (1993).  |                |
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|  |                          |   |                |

|                       |                    |
|-----------------------|--------------------|
| Examiner<br>Signature | Date<br>Considered |
|-----------------------|--------------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.